

Shoulder 好达

SHOULDER ELECTRONICS CO., LTD.

CRYSTAL RESONATOR Data Sheet

PRODUCT 产品: CRYSTAL RESONATOR

MODEL NO 型号: 49U

PREPARED 编制: Fengyu

CHECKED 审核: York

APPROVED 批准:

DATE 日期: 2007-01-25

1. SPECIFICATION

| | |
|--------------------------------------|-------------------|
| FREQUENCY RANGE | 1.8432-100.000MHz |
| LOAD CAPACITANCE | 10PF TO SERIES |
| FREQUENCY TOLERANCE AT 25°C | -/+30PPM MAXIMUM |
| FREQUENCY STABILITY AT -20 TO +70 °C | -/+30PPM MAXIMUM |
| OPERATING TEMPERATURE RANGE | -20 TO +70 °C |
| STORAGE TEMPERATURE RANGE | -40 TO +85 °C |
| EQUIVALENT SERIES RESISTANCE (ESR) | SEE ESR TABLE |
| DRIVE LEVEL | 1.0 mW MAXIMUM |
| SHUNT CAPACITANCE | 7PF MAXIMUM |
| AGING | -/+5PPM PER YEAR |
| INSULATION RESISTANCE | 500 MOhm MINIMUM |

2. FREQUENCY RANGE AND OSCILLATION MODE

| | | |
|------------------|----------------------|----------------------|
| FUNDAMENTAL (F) | THIRD OVERTONE (3OT) | FIFTH OVERTONE (5OT) |
| 1.8432-30.000MHz | 24.000-70.000MHz | 60.000-100.000MHz |

3. PART NUMBERING SYSTEM

| HOLDER TYPE | FREQUENCY | MODE | LOAD CAPACITANCE | FREQUENCY TOLERANCE AT 25°C | FREQUENCY STABILITY AT -20 TO +70 °C |
|-------------|-----------|-----------------|---|-----------------------------|--------------------------------------|
| 49U | IN MHz | F 3OT 5OT | 10 TO 33PF FOR PARALLEL S FOR SERIES | 30 FOR -/+30PPM | 30 FOR -/+30PPM |

| OPERATING TEMPERATURE RANGE | OPTIONS | |
|-----------------------------|------------------------------|---|
| A FOR -20 TO +70 °C | 3RD 3PIN SL SP T | THIRD LEAD THREE PIN BASE PLASTIC SLEEVE PLASTIC SPACER TAPE AND REEL |

FUNDAMENTAL MODE NOT NEEDED IN PART NUMBER

30PPM OF FREQUENCY TOLERANCE AND FREQUENCY STABILITY NOT NEEDED IN PART NUMBER

-20 TO +70 °C OF OPERATING TEMPERATURE RANGE NOT NEEDED IN PART NUMBER

4. ESR TABLE (Ohm)

| 1.8-2.0 MHz | 2.0-2.5 MHz | 2.5-3.5 MHz | 3.5-4.0 MHz | 4.0-8.0 MHz | 8.0-14 MHz | 14-24 MHz | >24 MHz |
|-------------|-------------|-------------|-------------|-------------|------------|-----------|---------|
| 600 | 400 | 200 | 120 | 90 | 60 | 40 | 40 |

5. DIMENSIONS

